C L A I M S

1. A lubricating oil composition comprising one or more passive markers which passive markers are capable of detection in situ by a detector present in a machine which is on or running.

2. A lubricating oil composition according to claim 1, wherein the passive markers are selected from microparticles and molecular species.

3. A lubricating oil composition according to claim 1 or 2, wherein the passive markers are odourant molecules.

4. A lubricating oil composition according to claim 1 or 2, wherein the passive markers are chosen from Radio Frequency Identification (RFID) chips, biomagnetic tags and magnetic tags.

5. A method of providing a lubricating oil composition according to any one of claims 1 to 4 comprising providing a lubricating oil and incorporating one or more passive markers into said lubricating oil which passive markers are suitable for detection in situ by a detector present in a machine which is on or running.

6. Use of one or more of a Radio Frequency Identification (RFID) chip, a magnetic tag, a biomagnetic tag and an odourant molecule as a passive marker for a lubricating oil composition according to any one of claims 1 to 4.

7. A machine comprising a detector for detecting in situ a passive marker in the lubricating oil composition according to any one of claims 1 to 4 when the lubricating oil composition is in the machine.